

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the accompanying application of)
)
ERIC J. M. DE BOER,)
MARIJKE DE BOER-WILDSCHUT,)
HARRY VAN DER HEIJDEN, and)
ARIE VAN ZON)
)
)
CATALYST SYSTEMS FOR ETHYLENE)
OLIGOMERISATION TO LINEAR ALPHA)
OLEFINS)
_____)

September 23, 2003

COMMISSIONER FOR PATENTS
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56 AND 1.97


It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein. Full text copies of the relevant documents are enclosed.

For the foreign language document, an English language abstract is provided.

The Examiner is requested to indicate consideration of this art on the attached PTO-1449 (Modified) by initialing next to each item submitted by the Applicant.

Respectfully submitted,

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By 

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|---|--|--|--|--------------------------------------|--|--------------------|--|
| FORM PTO-1449 (Modified) LIST OF INFORMATION PROVIDED BY APPLICANT (Use several sheets if necessary) | | | | ATTY. DOCKET NO. TS1266 (US) | | APPLICATION NUMBER | |
| | | | | APPLICANT E. J. M. De Boer et al. | | | |
| | | | | FILING DATE | | GROUP ART UNIT | |

| REFERENCE DESIGNATION | | | | U.S. PATENT DOCUMENTS | | | |
|-----------------------|----|--------------|------|-----------------------|-------|----------|----------------------------|
| Examiner Initial | | Document No. | Date | Patentee | Class | Subclass | Filing Date if Appropriate |
| | AA | | | | | | |
| | AB | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|----|-----------------|----------|---------|-------|----------|-------------|---|
| | | Document No. | Date | Country | Class | Subclass | Translation | |
| | | | | | | | Yes | N |
| | AE | WO 99/12981 | 3/18/99 | World | C08F | 4/70 | | |
| | AF | WO 00/15646 | 3/23/00 | World | C07F | 13/00 | | |
| | AG | WO 00/08034 | 2/17/00 | World | C07F | 13/00 | | |
| | AH | WO 00/20427 | 4/13/00 | World | C07F | 19/00 | | |
| | AI | WO 96/27439 | 9/12/96 | World | B01J | 31/18 | | |
| | AJ | WO 99/51550 | 10/14/99 | World | C07C | 2/32 | | |
| | AK | WO 99/12981 | 3/18/99 | World | C08F | 4/70 | | |
| | AL | WO 98/27124 | 6/5/98 | World | C08F | 10/00 | | |
| | AM | WO 92/12162 | 7/23/92 | World | C07F | 7/00 | | |
| | AN | WO 02/28805 A2 | 4/11/02 | World | C07C | 2/32 | | |
| | AO | EP 1,127,987 A1 | 8/29/01 | Europe | E03D | 5/02 | | X |

| OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) | | |
|--|----|---|
| | AR | D. Vogt, Oligomerisation of ethylene to higher alpha-olefins in Applied Homogeneous Catalysis with organometallic Compounds, Ed. B. Cornils, W. A. Hermann, 2 nd Edition, Vol. 1, Ch. 2.3.1.1, page 240-253, Wiley-VCH 2002) |
| | AS | Angew. Chem. Int. ED. 2002, 41, No. 3, "Iron-Catalyzed Polyethylene Chain Growth on Zinc: Linear α -Olefins With a Poisson Distribution," by George J. P. Britovsek, et al., pp. 489-491 |
| | AT | |

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|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
2. This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
TS1266 (US)

APPLICATION NUMBER

LIST OF INFORMATION PROVIDED
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
E. J. M. De Boer et al.

FILING DATE

GROUP ART UNIT

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|----|--------------|------|----------|-------|----------|-------------------------------|
| | BA | | | | | | |
| | BB | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | Document No. | Date | Country | Class | Subclass | Translation Yes N | |
|--|----|-----------------|---------|---------|-------|----------|----------------------|--|
| | BE | WO 99/50273 | 10/7/99 | World | C07F | 15/00 | | |
| | BF | WO 99/02472 | 1/21/99 | World | C07C | 2/32 | | |
| | BG | WO 00/24788 | 5/4/00 | World | C08F | 10/00 | | |
| | BH | WO 02/00339 A2 | 1/3/02 | World | B01J | 31/22 | | |
| | BI | WO 01/58874 A1 | 8/16/01 | World | C07D | 213/53 | | |
| | BJ | WO 02/06192 A1 | 1/24/02 | World | C07C | 2/32 | | |
| | BK | WO 02/12151 A1 | 2/14/02 | World | C07C | 2/32 | | |
| | BL | WO 03/011876 A1 | 2/13/03 | World | C07F | 17/00 | | |
| | BM | WO 03/000628 A1 | 1/3/03 | World | C07C | 2/32 | | |
| | BN | WO 00/50470 | 8/31/00 | World | C08F | 4/70 | | |
| | BO | | | | | | | |

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

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DATE CONSIDERED

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